

**ABSTRACT OF THE DISCLOSURE**

5 A decoding power aware encoding method for generating a predictively  
encoded data stream, in which predictions, that result in a reduction in the amount of  
data transferred from the secondary memory to primary memory during the decoding  
process, are favored, said method for favoring certain predictions comprising: a model  
for transfer of data from secondary memory to primary memory in the decoding  
process; a scheme for weighting the relative merits of favoring a certain prediction  
10 and the associated loss in compression gain; and based on said weighting scheme,  
choosing a particular prediction from the candidates allowed by the compression  
scheme.